

Ch 6 Test Review

6.1 Graphing  
(vertex, aos, y-int)  
Max or min

6.2 Solve by graphing

6.3 Solve by factoring

Word Problems Max/Min

6.4 Completing the Square

6.5 Quadratic formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Discriminant

6.6 Analyzing Graphs of  
Quadratic Functions (vertex form)

Extra Sum and product of roots

$$x^2 - \text{sum } x + \text{product} = 0$$

6.7 Quadratic Inequalities  
graph  
solve

$$\{1 \pm \sqrt{11}\}$$

$$\frac{1+\sqrt{11}}{2} \quad \frac{1-\sqrt{11}}{2}$$

$$\text{sum} = 2$$

$$\text{prod} \quad \frac{1-11}{-10}$$

$$x^2 - 2x - 10 = 0$$

200m



$$A(x) = x(200 - 2x)$$

$$A(x) = 200x - 2x^2$$

$$\frac{-200}{2(-2)} = 50$$

5000 m<sup>2</sup>

